

ABSTRACT OF THE DISCLOSURE

Monazite or xenotime-based blanket coatings that stiffen ceramic fabrics without causing embrittlement at temperatures of at least as high as 2400°F are provided. Methods for making the coatings are also provided. The methods comprise the synthesis
5 of high purity, monazite and xenotime powders with the stoichiometric ratio of metal to phosphorous of about 1:1.